CPC COOPERATIVE PATENT CLASSIFICATION

A23B PRESERVING, e.g. BY CANNING, MEAT, FISH, EGGS, FRUIT,

VEGETABLES, EDIBLE SEEDS

CHEMICAL RIPENING OF FRUIT OR VEGETABLES

THE PRESERVED, RIPENED, OR CANNED PRODUCTS (preserving

foodstuffs in general $\underline{A23L\ 3/00}$; preserving in general $\underline{A61L}$; applying food preservatives in packages $\underline{B65D\ 81/28}$)

Guide heading:

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A23B 4/00	General methods for preserving meat, sausages, fish or fish products	
A23B 4/002	• {Preservation in association with shaping (<u>A23B 4/0053</u> , <u>A23B 4/01</u> , <u>A23B 4/062</u> and <u>A23B 4/066</u> take precedence) }	
A23B 4/005	. Preserving by heating	
A23B 4/0053	{with gas or liquids, with or without shaping, e.g. in form of powder, granules or flakes }	
	<u>NOTE</u>	
	The heating means for the gas or liquid are not classified	
A23B 4/0056	{with packages, or with shaping in the form of blocks or portions }	
A23B 4/01	by irradiation or electric treatment {with or without shaping, e.g. in form of powder, granules or flakes }	
A23B 4/012	{with packages, or with shaping in the form of blocks or portions }	
A23B 4/015	. Preserving by irradiation or electric treatment without heating effect	
A23B 4/02	. Preserving by means of inorganic salts (apparatus therefor A23B 4/26, A23B 4/32)	
A23B 4/021	{with apparatus adapted for gaseous preserving agents }	
A23B 4/023	by kitchen salt or mixtures thereof with inorganic or organic compounds	
A23B 4/0235	{with organic compounds or biochemical products }	
A23B 4/027	 by inorganic salts other than kitchen salt, or mixtures thereof with organic compounds, e.g. biochemical compounds 	
A22D 4/02	Druina	

A23B 4/03 . Drying

Subsequent reconstitution { (drying apparatus in general <u>F26B</u>) }

A23B 4/031 .. {Apparatus for drying (A23B 4/037 takes precedence) }

A23B 4/033 ... with addition of chemicals (A23B 4/037 takes precedence)

A23B 4/037 ... Freeze-drying, {i.e. cryodessication, lyophilisation; Apparatus therefor }

A23B 4/044 . Smoking

Smoking devices

A23B 4/048 ... with addition of chemicals other than natural smoke

A23B 4/052	Smoke generators; {Smoking apparatus (A23B 4/056 takes precedence) }	
A23B 4/0523	{Smoke generators using wood-pyrolysis or wood-friction }	
A23B 4/0526	{Smoke generators or smoking apparatus using liquid smoke in gaseous or liquid form }	
A23B 4/056	Smoking combined with irradiation or electric treatment, e.g. electrostatic smoking; {Apparatus therefor }	
A23B 4/06	Freezing Subsequent thawing Cooling	
A23B 4/062	{the materials being transported through or in the apparatus with or without shaping, e.g. in the form of powder, granules or flakes (moving on the spot only A23B 4/066) }	
A23B 4/064	{with packages or with shaping in the form of blocks or portions }	
A23B 4/066	{the materials not being transported through or in the apparatus with or without shaping, e.g. in the form of powder, granules or flakes }	
A23B 4/068	{with packages or with shaping in the form of blocks or portions }	
A23B 4/07	Thawing subsequent to freezing	
A23B 4/08	with addition of chemicals {or treatment with chemicals } before or during cooling,{e.g. in the form of an ice coating or frozen block }	
A23B 4/09	with direct contact between the food and the chemical, e.g. liquid N2, at cryogenic temperature	
A23B 4/10	 Coating with a protective layer Compositions or apparatus therefor { (<u>A23B 4/08</u> takes precedence) } 	
A23B 4/12	Preserving with acids Acid fermentation	
A23B 4/14	. Preserving with chemicals not covered by groups A23B 4/02 or A23B 4/12	
A23B 4/16	in the form of gases, e.g. fumigation Compositions or apparatus therefor	
A23B 4/18	in the form of liquids or solids (apparatus therefor A23B 4/26, A23B 4/32)	
A23B 4/20	Organic compounds Micro-organisms Enzymes (acid fermentation A23B 4/12)	
A23B 4/22	Micro-organisms Enzymes; {Antibiotics }	
A23B 4/24	Inorganic compounds	
A23B 4/26	. Apparatus for preserving using liquids; {Methods therefor }	
A23B 4/28	by injection of liquids	
A23B 4/285	{with inorganic salts }	
A23B 4/30	by spraying of liquids	
A23B 4/305	<pre>{with inorganic salts }</pre>	
A23B 4/32	. Apparatus for preserving using solids	
A23B 4/325	{with inorganic salts }	

A23B 5/00	Preservation of eggs or egg products (preserving dough or bakery products <u>A21D</u>)	
A23B 5/005	. Preserving by heating	
A23B 5/0052	{in the shell }	
A23B 5/0055	{without the shell }	
A23B 5/0057	{with packages }	
A23B 5/01	by irradiation or electric treatment	
A23B 5/015	. Preserving by irradiation or electric treatment without heating effect	
A23B 5/02	. Drying Subsequent reconstitution	
A23B 5/022	{Drying with use of gas or vacuum }	
A23B 5/025	{Drying } with addition of chemicals (A23B 5/03, A23B 5/035 take precedence)	
A23B 5/0255	{Drying with use of liquids, e.g. by extraction }	
A23B 5/03	Freeze-drying, {i.e. cryodessication, lyophilisation; Apparatus therefor }	
A23B 5/035	Spray-drying	
A23B 5/04	Freezing Subsequent thawing Cooling	
A23B 5/041	{Freezing or cooling without shell (<u>A23B 5/05</u> takes precedence) }	
A23B 5/043	{with packages }	
A23B 5/045	Thawing subsequent to freezing	
A23B 5/05	{Freezing or cooling } with addition of chemicals	
A23B 5/055	with direct contact between the food and the chemical, e.g. liquid nitrogen, at cryogenic temperature	
A23B 5/06	Coating eggs with a protective layer Compositions or apparatus therefor	
A23B 5/065	{Apparatus for coating }	
A23B 5/08	. Preserving with chemicals	
A23B 5/10	in the form of gases, e.g. fumigation Compositions or apparatus therefor	
A23B 5/12	in the form of liquids or solids	
A23B 5/14	Organic compounds Micro-organisms Enzymes	
A23B 5/16	Micro-organisms Enzymes	
A23B 5/18	Inorganic compounds	
A23B 5/20	Apparatus for preserving using liquids	
A23B 5/22	Apparatus for preserving using solids	

A23B 7/00	Preservation or chemical ripening of fruit or vegetables
A23B 7/005	. Preserving by heating
A23B 7/0053	{by direct or indirect contact with heating gases or liquids }
A23B 7/0056	{with packages }
A23B 7/01	by irradiation or electric treatment
A23B 7/012	{with packages }
A23B 7/015	. Preserving by irradiation or electric treatment without heating effect
A23B 7/02	 Dehydrating Subsequent reconstitution (dried cooked potatoes <u>A23L 1/216</u>)
A23B 7/0205	{by contact of the material with fluids, e.g. drying gas or extracting liquids }
A23B 7/021	{Foam drying }
A23B 7/0215	{Post-treatment of dried fruits or vegetables }
A23B 7/022	 with addition of chemicals {before or during drying, e.g. semi-moist products } (A23B 7/024 to A23B 7/028 take precedence)
A23B 7/024	Freeze-drying, {i.e. cryodessication or lyophilisation }
A23B 7/026	Spray-drying
A23B 7/028	Thin layer-, drum- or roller-drying {or by contact with a hot surface }
A23B 7/03	Drying raw potatoes
A23B 7/04	Freezing Subsequent thawing Cooling
A23B 7/0408	{the material being transported through or in the apparatus with or without shaping, e.g. in the form of powder, granules or flakes (<u>A23B 7/05</u> takes precedence; moving on the spot only <u>A23B 7/0425</u>) }
A23B 7/0416	{with packages or with shaping in the form of blocks or portions }
A23B 7/0425	{the material not being transported through or in the apparatus, with or without shaping, e.g. in the form of powder, granules or flakes (<u>A23B 7/05</u> takes precedence) }
A23B 7/0433	{with packages or with shaping in the form of blocks or portions }
A23B 7/0441	{Treatment other than blanching preparatory to freezing }
A23B 7/045	Thawing subsequent to freezing
A23B 7/05	with addition of chemicals {or treatment with chemicals other than cryogenics, before or during cooling, e.g. in the form of an ice coating or frozen block }
A23B 7/055	with direct contact between the food and the chemical, e.g. liquid nitrogen, at cryogenic temperature
A23B 7/06	. Blanching (machines therefor A23N 12/00)
A23B 7/08	. Preserving with sugars (marmalade, jam, fruit jellies A23L 1/06)
A23B 7/085	{in a solution of sugar }
A23B 7/10	Preserving with acids Acid fermentation

A23B 7/105	{Leaf vegetables, e.g. sauerkraut }		
A23B 7/12	Apparatus for compressing sauerkraut		
A23B 7/14	. Preserving or ripening with chemicals not covered by groups A23B 7/08 or A23B 7/10		
A23B 7/144	 in the form of gases, e.g. fumigation Compositions or apparatus therefor { (cooling without control of atmosphere composition A23B 7/04) } 		
A23B 7/148	 in a controlled atmosphere, e.g. partial vacuum, comprising only CO2, N2, O2 or H2O 		
A23B 7/152	in a controlled atmosphere comprising other gases in addition to CO2, N2, O2 or H2O; {Elimination of such other gases }		
A23B 7/153	in the form of liquids or solids		
A23B 7/154	Organic compounds Micro-organisms Enzymes (acid fermentation A23B 7/10)		
A23B 7/155	Micro-organisms Enzymes; {Antibiotics }		
A23B 7/157	Inorganic compounds		
A23B 7/158	Apparatus for preserving using liquids		
A23B 7/159	Apparatus for preserving using solids		
A23B 7/16	 Coating with a protective layer Compositions or apparatus therefor (<u>A23B 7/08</u> takes precedence) 		
A23B 9/00	Preservation of edible seeds, e.g. cereals		
A23B 9/00 A23B 9/005	Preservation of edible seeds, e.g. cereals • {Processes or apparatus using pressure variation or mechanical force, e.g. shock, acceleration, shear stress, contortion }		
	{Processes or apparatus using pressure variation or mechanical force, e.g. shock,		
A23B 9/005	• {Processes or apparatus using pressure variation or mechanical force, e.g. shock, acceleration, shear stress, contortion }		
A23B 9/005 A23B 9/02	 {Processes or apparatus using pressure variation or mechanical force, e.g. shock, acceleration, shear stress, contortion } Preserving by heating 		
A23B 9/005 A23B 9/02 A23B 9/025	 {Processes or apparatus using pressure variation or mechanical force, e.g. shock, acceleration, shear stress, contortion } Preserving by heating {with use of gases } 		
A23B 9/005 A23B 9/02 A23B 9/025 A23B 9/04	 {Processes or apparatus using pressure variation or mechanical force, e.g. shock, acceleration, shear stress, contortion } Preserving by heating {with use of gases } by irradiation or electric treatment 		
A23B 9/005 A23B 9/02 A23B 9/025 A23B 9/04 A23B 9/06	 {Processes or apparatus using pressure variation or mechanical force, e.g. shock, acceleration, shear stress, contortion } Preserving by heating {with use of gases } by irradiation or electric treatment Preserving by irradiation or electric treatment without heating effect Drying Subsequent reconstitution Freezing Subsequent thawing 		
A23B 9/005 A23B 9/02 A23B 9/025 A23B 9/04 A23B 9/06 A23B 9/08	 {Processes or apparatus using pressure variation or mechanical force, e.g. shock, acceleration, shear stress, contortion } Preserving by heating {with use of gases } by irradiation or electric treatment Preserving by irradiation or electric treatment without heating effect Drying Subsequent reconstitution Freezing 		
A23B 9/005 A23B 9/02 A23B 9/025 A23B 9/04 A23B 9/06 A23B 9/08 A23B 9/10	 {Processes or apparatus using pressure variation or mechanical force, e.g. shock, acceleration, shear stress, contortion } Preserving by heating {with use of gases } by irradiation or electric treatment Preserving by irradiation or electric treatment without heating effect Drying Subsequent reconstitution Freezing Subsequent thawing Cooling 		
A23B 9/005 A23B 9/02 A23B 9/025 A23B 9/04 A23B 9/06 A23B 9/08 A23B 9/10 A23B 9/12	 {Processes or apparatus using pressure variation or mechanical force, e.g. shock, acceleration, shear stress, contortion } Preserving by heating {with use of gases } by irradiation or electric treatment Preserving by irradiation or electric treatment without heating effect Drying Subsequent reconstitution Freezing Subsequent thawing Cooling Thawing subsequent to freezing Coating with a protective layer 		

A23B 9/20	in a controlled atmosphere, e.g. pa or H2O	artial vacuum, comprising only CO2, N2, O2	
A23B 9/22	in a controlled atmosphere compri or H2O	ising other gases in addition to CO2, N2, O2	
A23B 9/24	in the form of liquids or solids		
A23B 9/26	Organic compounds Micro-organisms Enzymes		
A23B 9/28	Micro-organisms Enzymes; {Antibiotics }		
A23B 9/30	Inorganic compounds		
A23B 9/32	Apparatus for preserving using liq	uids	
A23B 9/34	Apparatus for preserving using so	Apparatus for preserving using solids	